Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A computer implemented method comprising:

~~Identifying~~processing by a computing device a binary file generated by a source application ~~to be emailed to one or more designated recipients~~ to identify one or more user interface displays rendered when contents of the binary file are viewed using the source application; and

generating by the computing device a self-contained representation of the one or more user interface displays ~~in the form of a self-contained representation based at least in part upon~~ including one or more ~~state-based transition~~ specifications correspondingly specifying the one or more user interface displays, to enable ~~platform independent~~ viewing of said contents ~~of~~from said binary file ~~by said one or more recipients~~without usage of said source application, by rendering said one or more user interface displays in accordance with said one or more specifications; ~~and~~.

~~transmitting said representation to said one or more designated recipients in association with at least one email message.~~

2. (Currently Amended) The method of claim 1, wherein ~~said state-based transition specifications specify a group of one or more user interface displays eligible to be rendered on behalf of said one or more recipients, based at least in part upon user input received from said one or more recipients.~~ each specification includes one or more transition rules specifying one or more transitions to one or more other user interface displays specified by one or more other specifications.

3. (Currently Amended) The method of claim 2, wherein each transition rule specifies transition to another user interface display specified by another specification when the user interface displays enter a particular user interface display state. ~~said user interface displays transition from a first state to a second state based upon said received user input.~~

4. (Currently Amended) The method of claim 1, further comprising:

encoding by the computing device an electronic message having said self-contained representation attached, using ~~at least one of~~ a MIME protocol, a Uuencode protocol, or~~and~~ a BinHex protocol; and

transmitting by the computing device said encoded electronic message and self-contained representation to one or more addressed recipients.

5. (Currently Amended) The method of claim 4~~1~~, ~~where said source application or copy of said source application need not be accessed by said one or more designated recipients in order for said attachment to be viewed by said one or more designated recipients~~ further comprising attaching by said computing device said self-contained representation to the electronic message.

6. (Currently Amended) The method of claim 1, wherein each of said ~~set of one or more state-based~~ user interface displays comprises one or more ~~state-based~~ display cells ~~each associated with a portion of said content~~, and each of said specification comprises one or more display cell specifications correspondingly specifying the one or more display cells.

7. (Currently Amended) ~~In a first computing device, a~~A computer implemented method comprising:

identifying by a computing device a ~~source application~~ format ~~of~~or ~~an identified~~ binary file generated by a source application;

~~determining if said identified source application format is a member of a group of one or more supported formats~~ selecting by the computing device a set of user interface display specifications from a plurality of sets of user interface display specifications, based at least in part on the identified format of the binary file; and

~~capturing a set of one or more user interface displays, based at least in part upon one or more state-based transition specifications,~~ processing by the computing

device the binary file to generate a self-contained representation of user interface displays of said binary file rendered when contents of the binary file are viewed using the source application, by associating results of said processing of the binary file with the selected set of user interface display specifications ~~for viewing by a designated recipient, if said identified format is determined to be a supported format~~, to enable viewing of the user interface displays without the source application.

8. (Currently Amended) The method of claim 7, further comprising:

attaching by the computing device said self-contained representation with an electronic message~~encoding said one or more user interface displays in association with an email message~~; and

transmitting by the computing device said ~~email~~ electronic message and said attached self-contained representation to ~~said designated~~one or more recipients ~~to be~~for viewing, where the viewing includes render~~inged as one or more of~~ said user interface displays in accordance with said ~~state based transition~~user interface display specifications ~~in response to received~~ and user input(s).

9. (Currently Amended) The method of claim 7, wherein said binary file ~~represents at least one of~~ is either a word processing document ~~and~~ or a spreadsheet document.

10. (Currently Amended) The method of claim 7, wherein said ~~identified file format is~~ determin~~inged~~ is based upon a filename extension associated with said binary file.

11. (Currently Amended) The method of claim 7, wherein ~~capturing~~ said processing further comprises:

~~accessing a set of state transition specifications corresponding to said identified source application format;~~

launching by the computing device a locally accessible version of the~~an~~ application ~~associated with said source application format~~;

simulating by the computing device user input(s) to said application based at least in part upon said selected set of ~~state transition~~user interface display specifications; and

storing by the computing device output(s) from said application in response to said ~~received~~ user input(s).

12. (Currently Amended) The method of claim 7, wherein each specification includes one or more transition rules specifying one or more transitions to one or more other user interface displays specified by one or more other specifications~~said user interface displays transition from a first state to a second state based upon said received user input~~.

13. (Currently Amended) The method of claim 12, wherein each transition rule specifies transition to another user interface display specified by another specification when the user interface displays enter a particular user interface display state~~said user interface displays further transition from said second state back to said first state or from said second state to one of a plurality of additional states based upon received user input~~.

14. (Currently Amended) The method of claim 7, wherein each of said ~~set of one or more state based~~ user interface displays comprises one or more ~~state based~~ display cells, and each of said specification comprises one or more display cell specifications correspondingly specifying the one or more display cells.

15. (Currently Amended) A computer implemented method comprising:

receiving by a computing device an email message including an associated first attachment of a first attachment type;

determining by the computing device whether~~if~~ said first attachment type is associated with a member of a group of one or more supported source applications;

~~referencing~~ selecting by the computing device a set of one or more ~~state based transition~~user interface display specifications from a plurality of sets of one or more

user interface display specifications, based upon said first attachment type if it is determined said first attachment type is associated with a member of said group of one or more supported source applications;

launching by the computing device a locally accessible version of the~~said~~ associated source application ~~associated with said first application type~~;

simulating by the computing device one or more user input signals based upon said selected set of one or more ~~state-based transition~~user interface display specifications; and

capturing by the computing device ~~a first set of user interface displays in~~ output responses of the associated source application to said one or more user input signals ~~based~~, and associating the captured output responses with the ~~at least in part upon said one or more state-based transition~~ selected set of user interface display specifications ~~so as~~ to generate a ~~non-proprietary~~self-contained representation of said first attachment to allow subsequent viewing of the attachment without further use of the associated source application.

16. (Currently Amended) The method of claim 15, further comprising:

~~encoding said non-proprietary representation of said first attachment;~~

associating by the computing device said representation with said email message in the form a second attachment, replacing said first attachment;

encoding by the computing device said email message and said second attachment; and

transmitting said encoded email message ~~including said~~and second attachment to a designated recipient.

17. (Currently Amended) The method of claim 16, wherein said encoding comprises encoding the ~~non-proprietary~~ representation ~~is encoded~~ in accordance with the MIME protocol.

18. (Original) The method of claim 15, wherein said first attachment type comprises a proprietary format.

19. (Currently Amended) The method of claim 15, wherein each of said plurality of user interface displays ~~further~~ comprises ~~a plurality of~~one or more display cells, and each of said user interface display specifications comprises one or more display cell specifications.

20. (Currently Amended) The method of claim 19, wherein each of said ~~plurality of display cells displays a portion of one or more of said plurality of user interface displays based at least in part upon said state-based transition~~ specifications further comprises one or more transition rules, each transition rule specifying a transition to a user interface display when the user interface displays enter a particular display state.

21. (Currently Amended) An apparatus comprising:

a storage medium having stored therein a plurality of programming instructions designed to

~~identify~~process a binary file generated by a source application ~~to be emailed to one or more designated recipients~~ to identify one or more user interface displays rendered when contents of the binary file are viewed using the source application,

generate a self-contained representation of the one or more user interface displays ~~in the form of a self-contained representation based at least in part upon~~ including one or more ~~state-based transition~~ specifications correspondingly specifying the user interface displays, to enable ~~platform independent~~ viewing of said contents off~~rom~~ said binary file, without usage of said source application, by rendering said one or more user interface displays in accordance with said one or more specifications ~~by said one or more recipients,~~; and

~~transmit said representation to said one or more designated recipients in association with at least one email message; and~~

at least one processor coupled to the storage medium to execute the programming instructions.

22. (Currently Amended) The apparatus of claim 21, wherein each specification includes one or more transition rules specifying one or more transitions to one or more other user interface displays specified by one or more other specifications~~said state-based transition specifications specify a group of one or more user interface displays eligible to be rendered on behalf of said one or more recipients, based at least in part upon user input received from said one or more recipients~~.

23. (Currently Amended) The apparatus of claim 22, wherein each transition rule specifies transition to another user interface display specified by another specification when the user interface displays enter a particular user interface display states~~said user interface displays transition from a first state to a second state based upon said received user input~~.

24. (Currently Amended) The apparatus of claim 21, wherein the programming instructions are further designed to encode an electronic message having said self-contained representation attached, using ~~at least one of~~either a MIME protocol, a Uuencode protocol, or~~and~~ a BinHex protocol.

25. (Currently Amended) The apparatus of claim 21, wherein the programming instructions are further adapted to attach said self-contained representation to the electronic message ~~said source application or copy of said source application need not be accessed by said one or more designated recipients in order for said attachment to be viewed by said one or more designated recipients~~.

26. (Currently Amended) The apparatus of claim 21, wherein each of said ~~set of one or more state-based~~ user interface displays comprises one or more ~~state-based~~ display cells ~~each associated with a portion of said content~~, and each of said specification comprises one or more display cell specifications correspondingly specifying the one or more display cells.

27. (Currently Amended) An apparatus comprising:

a storage medium having stored therein a plurality of programming instructions designed to

identify a ~~source application~~ format ~~of~~or ~~an identified~~ binary file generated by a source application;

~~determine if said identified source application format is a member of a group of one or more supported formats~~ selecting a set of user interface display specifications from a plurality of sets of user interface display specifications, based at least in part on the identified format of the binary file, and

~~capture a set of one or more user interface displays, based at least in part upon one or more state based transition specifications,~~ processing the binary file to generate a self-contained representation of user interface displays of said binary file rendered when contents of the binary file are viewed using the source application, by associating results of said processing of the binary file with the selected set of user interface display specifications ~~for viewing by a designated recipient, if said identified format is determined to be a supported format~~; and

at least one processor coupled to the storage medium to execute the programming instructions.

28. (Currently Amended) The apparatus of claim 27, wherein the programming instructions are further designed to

attach said self-contained representation with an electronic message~~encode said one or more user interface displays in association with an email message~~; and

transmit said electronic~~email~~ message and said attached self-contained representation to ~~said designated~~one or more recipients ~~to be~~ for viewing, where the viewing includes render~~inged as one or more of~~ said user interface displays in accordance with said ~~state based transition~~user interface display specifications ~~in response to received~~ and user input~~s~~.

29. (Currently Amended) The apparatus of claim 27, wherein said binary file ~~represents at least one of~~ is either a word processing document or~~and~~ a spreadsheet document.

30. (Currently Amended) The apparatus of claim 27, wherein said ~~identified file format~~programming instructions are adapted to perform said determining ~~is determined~~ based upon a filename extension associated with said binary file.

31. (Currently Amended) The apparatus of claim 27, wherein the programming instructions are further designed to

~~access a set of state transition specifications corresponding to said identified source application format;~~

launch a locally accessible version of the~~an~~ application ~~associated with said source application format~~;

simulate user input(s) to said application based at least in part upon said selected set of ~~state transition~~user interface displace specifications; and

store output(s) from said application in response to said ~~received~~ user input(s).

32. (Currently Amended) The apparatus of claim 27, wherein each specification includes one or more transition rules specifying one or more transitions to one or more other user interface displays specified by one or more other specifications~~said user interface displays transition from a first state to a second state based upon said received user input~~.

33. (Currently Amended) The apparatus of claim 32, wherein each transition rule specifies transition to another user interface display specified by another specification when the user interface displays enter a particular user interface display states~~said user interface displays further transition from said second state back to said first state or from said second state to one of a plurality of additional states based upon received user input~~.

34. (Currently Amended) The apparatus of claim 27, wherein each of said ~~set of one or more state-based~~ user interface displays comprises one or more ~~state-based~~ display cells, and each of said specification comprises one or more display cell specifications correspondingly specifying the one or more display cells.

35. (Currently Amended) An apparatus comprising:

a storage medium having stored therein a plurality of programming instructions designed to

receive an email message including an associated first attachment of a first attachment type,

determine whether~~if~~ said first attachment type is a member of a group of one or more supported source applications,

~~reference~~ selecting a set of one or more ~~state-based transition~~ specifications from a plurality of sets of one or more user interface display specifications, based upon said first attachment type if it is determined said first attachment type is associated with a member of said group of one or more supported source applications,

launch a locally accessible version of the~~said~~ associated source application ~~associated with said first application type~~,

simulate one or more user input signals based upon said selected set of one or more ~~state-based transition~~user interface display specifications, and

capture ~~a first set of user interface displays in~~ output responses of the associated source application to said one or more user input signals ~~based~~, and associate the captured output responses with the ~~at least in part upon said one or more state-based transition~~selected set of user interface display specifications ~~so as~~ to generate a ~~non-proprietary~~self-contained representation of said first attachment to allow subsequent viewing of the attachment without further use of the associated source application; and

at least one processor coupled to the storage medium to execute the programming instructions.

36. (Currently Amended) The apparatus of claim 35, wherein the programming instructions are further designed to

~~encode said non-proprietary representation of said first attachment;~~

associate~~ing~~ said representation with said email message in the form a second attachment replacing said first attachment; ~~and~~

encode said email message and said second attachment; and

transmit said email message ~~including~~ and said second attachment to a designated recipient.

37. (Currently Amended) The apparatus of claim 36, wherein said ~~non-proprietary~~encoding comprises encoding the representation ~~is encoded~~in accordance with the MIME protocol.

38. (Original) The apparatus of claim 35, wherein said first attachment type comprises a proprietary format.

39. (Currently Amended) The apparatus of claim 35, wherein each of said plurality of user interface displays further comprises ~~a plurality of~~ one or more display cells, and each of said user interface display specifications comprises one or more display cell specifications.

40. (Currently Amended) The apparatus of claim 39, wherein each of said ~~plurality of display cells displays a portion of one or more of said plurality of user interface displays based at least in part upon said state-based transition~~ specifications further comprises one or more transition rules, each transition rule specifying a transition to a user interface display when the user interface displays enter a particular display state.